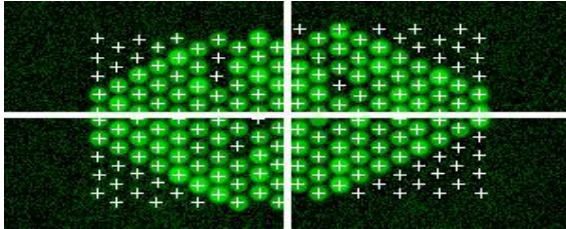


QC Report - Agilent Technologies : 1 Color Gene Expression

Date	Friday, November 08, 2019 - 16:18	Grid	MS2_1_086109_D_F_20190722
Image	SG18178613_258610910001_S001 [1_1]	BG Method	No Background
Protocol	GE1_1200_Jun14 (Read Only)	Background Detrend	On(FeatNCRRange, LoPass)
User Name	ledossey	Multiplicative Detrend	True
FE Version	12.1.0.3	Additive Error	4(Green)
Sample(red/green)		Saturation Value	777511 (g)

Spot Finding of the Four Corners of the Array



Grid Normal

	Feature Green	Local Background Green
Non Uniform	27	0
Population	1194	4374

Net Signal Statistics

Agilent Spikelsins:

Green

# Saturated Features	0
99% of Sig. Distrib.	520
50% of Sig. Distrib.	26
1% of Sig. Distrib.	16

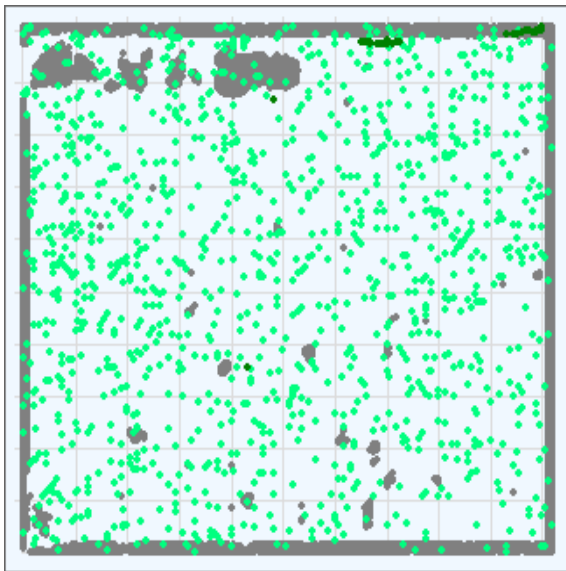
Non-Control probes:

Green

# Saturated Features	0
99% of Sig. Distrib.	12087
50% of Sig. Distrib.	1244
1% of Sig. Distrib.	278

Spatial Distribution of All Outliers on the Array

384 rows x 164 columns

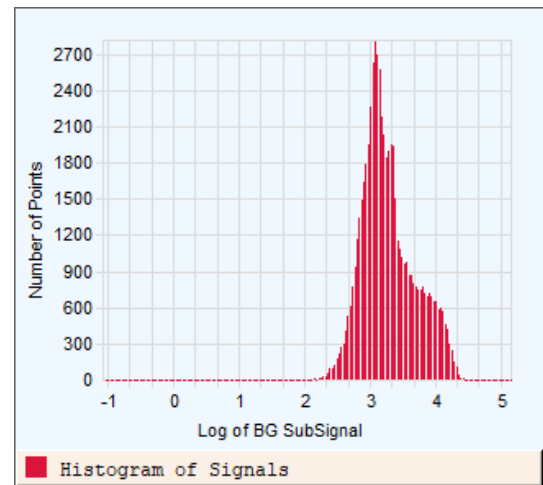


FeatureNonUnif (Green) = 27(0.05%)

GeneNonUnif (Green) = 0 (0.000 %)

- BG NonUniform
- BG Population
- Green FeaturePopulation
- Green Feature NonUniform

Histogram of Signals Plot



Features (NonCtrl) with BGSubSignal < 0: 0 (Green)

Negative Control Stats

Green

Average Net Signals	27.89
StdDev Net Signals	22.66
Average BG Sub Signal	3.19
StdDev BG Sub Signal	22.11

Local Bkg (inliers)

Green

Number	55387
Avg	35.10
SD	1.75

Foreground Surface Fit

Green

RMS_Fit	3.09
RMS_Resid	4.37
Avg_Fit	34.67

Multiplicative Surface Fit

Green

RMS_Fit	0.04
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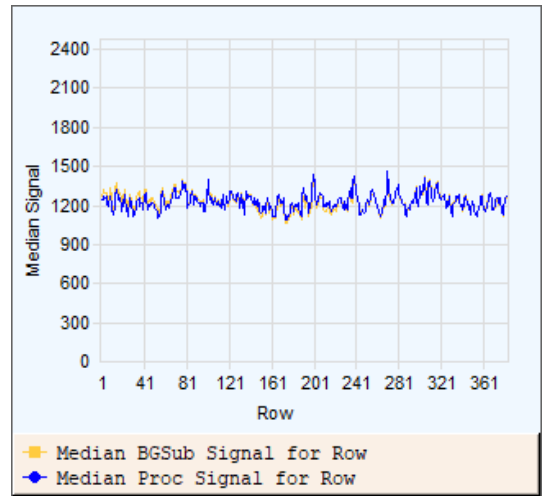
Reproducibility: %CV for Replicated Probes

Median %CV Signal (inliers)

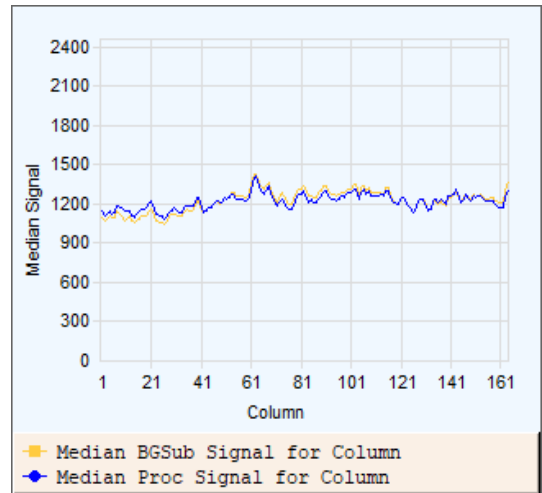
Non-Control probes	Agilent SpikeIns
Green	Green

BGSubSignal	-1.00	-1.00
ProcessedSignal	-1.00	-1.00

Spatial Distribution of Median Signals for each Row



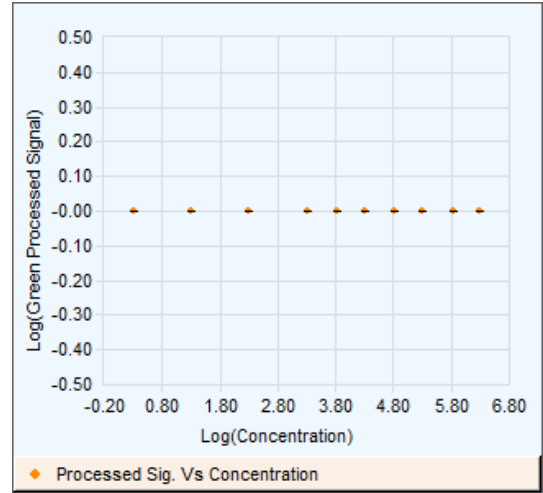
Spatial Distribution of Median Signals for each Column



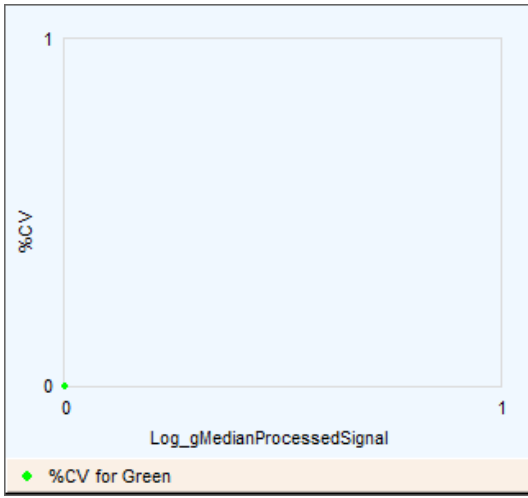
Agilent Spikelns Signal Statistics

Probe Name	Log(Relative Conc.)	Median(Log Proc. Sig.)	% CV	StdDev
r60_3	0.30	0.00	0.00	0.00
(+)E1A_r60_3	0.30	0.00	0.00	0.00
r60_a104	1.30	0.00	0.00	0.00
(+)E1A_r60_a104	1.30	0.00	0.00	0.00
r60_a107	2.30	0.00	0.00	0.00
(+)E1A_r60_a107	2.30	0.00	0.00	0.00
r60_a135	3.30	0.00	0.00	0.00
(+)E1A_r60_a135	3.30	0.00	0.00	0.00
r60_a20	3.83	0.00	0.00	0.00
(+)E1A_r60_a20	3.83	0.00	0.00	0.00

Agilent Spikelns: Log(Signal) vs. Log(Relative concentration) Plot



Agilent Spikelns: %CV of Avg. Processed Signal Plot



Median %CV:-1.00

Agilent Spike-In Concentration-Response Statistics

Linear Range Statistics:

Low Signal	NA
High Signal	NA
Low Relative Concentration	NA
High Relative Concentration	NA
Slope	NA
R^2 Value	NA

Evaluation Metrics for GE1_QCMT_Jun14

Good (5) ; Evaluate (5)

Metric Name	Value	Excellent	Good	Evaluate
IsGoodGrid	1.00		>1	<1
AnyColorPrctFeatNonU...	0.05		<1	>1
gNegCtrlAveNetSig	27.89		<40	>40
gNegCtrlAveBGSubSig	3.19		-10 to 5	<-10 or >5
gNegCtrlSDevBGSubSig	22.11		<10	>10
gSpatialDetrendRMSFil...	4.37		<15	>15
gNonCntrlMedCVProcSig...	-1.00		0 to 8	<0 or >8
gE1aMedCVProcSignal	-1.00		0 to 8	<0 or >8
absGE1E1aSlope	0.00		0.90 to 1.20	<0.90 or >1.20
DetectionLimit	-1.00		0.01 to 2	<0.01 or >2

● Excellent ● Good ● Evaluate

Signal Detection Limit Statistics

Saturation Point	NA
Low Threshold	NA
Low Threshold Error	NA
Spike-In Detection Limit	NA